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	Application No.	Applicant(s)
Notice of Allowshills	10/634,013	PURDY, MATTHEW A.
	Examiner	Art Unit
	Cindy D. Khuu	2863
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commore GHTS. This application is the common of the c	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-32</u> .	•	•
3. Acknowledgment is made of a claim for foreign priority un	der 35 U.S.C. § 119(a)-(d)	or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:		•
1. Certified copies of the priority documents have	been received.	
2. Certified copies of the priority documents have	been received in Application	on No
3. Copies of the certified copies of the priority doc	cuments have been receive	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		<b>5</b> 11
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
5. X CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		w ( PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		` ,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 9/1/05.	s Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on t ne header according to 37 Cl	the drawings in the front (not the back) of FR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Ir	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	ummary (PTO-413),
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>5/2/05</u>	Paper No. 8), 7. ⊠ Examiner's	/Mail Date Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	·
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## **DETAILED ACTION**

#### Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

The abstract: Replace the abstract with - - The present invention is generally directed to various methods and systems for adaptive metrology sampling plans that may be employed to monitor various manufacturing processes. In one example, the method includes creating a plurality of metrology sampling rules, assigning each of the metrology sampling rules a sampling weight value, identifying at least one workpiece that satisfies at least one of the metrology sampling rules, assigning the sampling weight value for each of the satisfied metrology sampling rules with the identified workpieces that satisfy the rules, and indicating a metrology operation should be performed when a cumulative total of the sampling weight values is at least equal to a pre-established trigger value. - -

Figure 1: Replace "Samplling" (Reference 18) with - - Sampling - -. See attached proposed drawing.

### Pertinent Art Cited

The following US Patent Application Publication reveals the current state of the art:

Chen et al. (6,477,432) teach a method, comprising: creating a plurality of metrology sampling rules (Column 5: Lines 30-50; inspection sampling rates and selective sampling lots are type of sampling rules); and assigning each of said plurality of metrology sampling rules a sampling weight value (Fig. 2; process stability levels).

However, Chen does not teach at least the method of indicating a metrology (defined as "the study of measurement") operation should be performed when a cumulative total of said sampling weight values (emphasis added) is at least equal to a pre-established trigger value.

Yanaru et al. (6,577,972) teach a method, comprising: creating a plurality of metrology sampling rules (Column 4: Lines 13; inspection steps are sampling rules); and assigning each of said plurality of metrology sampling rules a sampling weight value (Column 4: Lines 40-46).

However Yanaru does not teach at least the methods of identifying at least one workpiece that satisfies at least one of said plurality of metrology sampling rules; and associating said sampling weight value for each of said satisfied metrology sampling rules with said identified workpieces that satisfy said rules.

# Allowable Subject Matter

Claims 1-32 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The primary reason for the allowance of claim 1 is the inclusion of the limitation "the method of indicating a metrology (defined as "the study of measurement") operation should be performed when <u>a cumulative total of said sampling weight values</u> (emphasis added) is at least equal to a pre-established trigger value".

The primary reason for the allowance of claim 13 is the inclusion of the limitation "the method of indicating a metrology (defined as "the study of measurement") operation should be performed when <u>a cumulative total of said sampling weight values</u> (emphasis added) for one of said plurality of metrology sampling rules is at least equal to a pre-established trigger value.

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The primary reason for the allowance of claim 23 is the inclusion of the limitation "the method of indicating a metrology (defined as "the study of measurement") operation should be performed when a <u>cumulative total of said sampling weight values</u> (emphasis added) for one of said workpieces is at least equal to a pre-established trigger value.

Claims 2-12, 14-22, and 24-32 are allowed due to their dependency on claims 1, 13, and 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cindy D. Khuu whose telephone number is (571) 272-8585. The examiner can normally be reached on M-F, 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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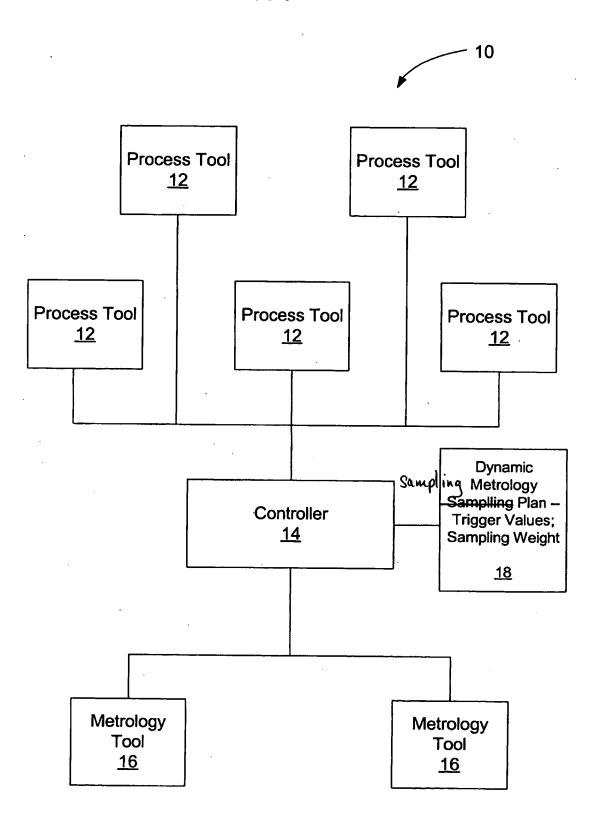


Figure 1